

Program
Workshop on X-ray Mission Architectural Concepts
Maritime Institute, Linthicum, MD

December 14, 2011

Session I - Perspective

8:30	R. Petre (NASA/GSFC)	Welcome Background, goals of workshop, and study process
8:50	G. Yoder (NASA HQ)	NASA Headquarters Perspective
9:05	R. Smith (SAO)	IXO science objectives; decadal view of IXO science
9:20	C. Wilson-Hodge (NASA/MSFC)	Future missions and their relation to IXO science objectives
9:35		Discussion
10:05		Break

Session II - Mission concepts - I

10:45	M. Garcia (SAO)	EPE - The Extreme Physics Explorer
11:10	R. Mushotzky (U.Maryland)	SAHARA – Spectral Analysis with High Angular Resolution Astronomy
11:35	M. Ulmer (Northwestern)	Concept for an orbiting Wide Field X-ray imaging spectrometer (WFXIS)
12:00	A. R. Rao (Tata Institute)	SuperMon & Black Hole Tracker
12:25		Discussion
12:45		Lunch

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Session III - Mission concepts - II

13:45	M. Bautz (MIT)	AEGIS - An Astrophysics Experiment for Grating and Imaging Spectroscopy
14:10	W. Cash (University of Colorado)	The Warm-Hot Intergalactic Medium Explorer (WHIMEx)
14:35	S. Murray (Johns Hopkins)	Wide Field X-Ray Telescope Mission (WFXT)
15:00	M. Elvis (SAO)	REDUX: A Flexible Path for X-ray Astronomy
15:25		Discussion
15:45		Break

Session IV - Mission concepts - III

16:15	D. Hartmann (Clemson)	Xenia: A Probe of Cosmic Chemical Evolution
16:40	F. Harrison (CalTech)	The High Energy X-ray Probe (HEX-P)
17:05	H. Krawyzinski (Washington U.)	The Black Hole Evolution and Space Time (BEST) Observatory
17:30	P. Ray (NRL)	The Advanced X-ray Timing Array (AXTAR)
17:55		Discussion
18:25		End

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Session V - Mission concepts - IV

8:30	N. White (NASA/GSFC)	Athena
8:55	J. Bookbinder (SAO)	AXSIO - The Advanced X-ray Spectroscopic Imaging Observatory
9:20	A. Vikhlinin (SAO)	Smart-X, "Square Meter, Arcsecond Resolution X-ray Telescope"
9:45	J. Grindlay (Harvard University)	Epoch of Reionization Energetic X-ray Survey (EREKS)
10:10		Discussion
10:30		Break

Session VI - Enabling technology and instrument concepts - I

11:00	W. Zhang (NASA/GSFC)	Next Generation X-ray Optics: High-resolution, Light-weight, and Low-cost
11:15	B. Ramsey (NASA/MSFC)	Improving X-Ray Optics Through Differential Deposition
11:30	M. Ulmer (Northwestern)	Magnetostrictive films
11:45	J. Casstevens (Dallas Optical Sys.)	A 3 Meter Capacity Diamond Turning Machine
12:00	W. Cash (University of Colorado)	Reflection Grating Spectrometers
12:15	R. Heilman (MIT)	Critical-Angle Transmission Gratings for High Resolution, Large Area Soft X-ray Spectroscopy
12:30	P. Gorenstein (SAO)	A Hard X-Ray Telescope for an X-Ray Spectroscopy Mission, Extending the Bandwidth
12:45		Discussion
13:00		Lunch

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Session VII - Enabling technology and instrument concepts - II

13:45	
14:00	H. Marshall (MIT)
14:15	C. Kilbourne (NASA/GSFC)
14:30	P. Shirron (NASA/GSFC)
14:45	D. Burrows (Penn State)
15:00	R. Danner (Northrup Grumman)
15:15	T. McIntyre (L-3 Communications)
15:30	Discussion
15:45	Break

Session VIII - Discussion and Conclusion

16:15 J. Bregman (Michigan/CST chair) Concepts for study / discussion

17:30 **End of workshop**